Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P485153

Luminaire Tested: **ORLG-12-4-INS-A125-LD4-2STD-35-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Report Generated By E9911574 / USPTCWHP6081592

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P485153
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab:	INNOVATION CENTER
Issue Date:	3/1/2021
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	FAIL-SAFE
Catalog Number:	ORLG-12-4-INS-A125-LD4-2STD-35-120-EDD
Description:	1X4 ORL LED LUMINAIRE WITH A125 LENS
Light Source:	-
Ballast/Driver:	-

Luminaire Equipment:	Sample No.	Condition	Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8114.1 lumens
Efficiency:	N/A
Efficacy:	121.8 lumens/watt
Spacing Criteria (0/90/45):	1.17 / 1.21 / 1.32
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct

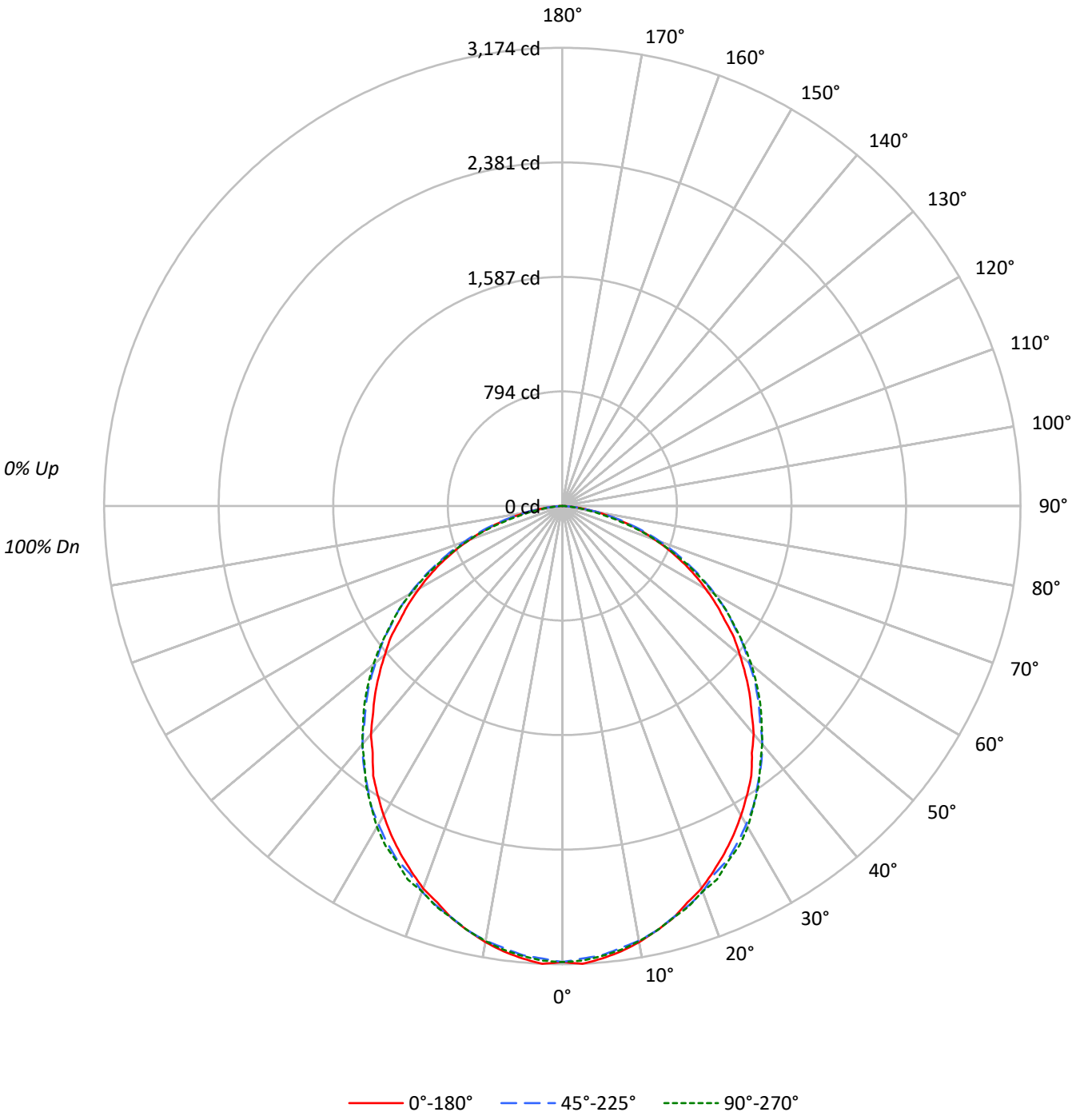
Input Watts (W):	66.6
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P485153
CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2STD-35-120-EDD

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P485153
CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2STD-35-120-EDD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8501	8501	8501
5°	8501	8440	8454
10°	8382	8353	8363
15°	8238	8228	8233
20°	8072	8141	8136
25°	7882	8036	8062
30°	7691	7916	7980
35°	7501	7745	7779
40°	7244	7572	7566
45°	6981	7309	7381
50°	6717	7064	7158
55°	6434	6815	6855
60°	6163	6572	6526
65°	5840	6169	6048
70°	5382	5666	5408
75°	4759	4956	4327
80°	3828	3880	3025
85°	2507	2399	1760

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P485153
CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2STD-35-120-EDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	3.7
10°-20°	834.9	10.3
20°-30°	1243.0	15.3
30°-40°	1463.1	18.0
40°-50°	1467.0	18.1
50°-60°	1286.4	15.9
60°-70°	940.7	11.6
70°-80°	484.8	6.0
80°-90°	97.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2374.9	29.3
0°-40°	3838.0	47.3
0°-60°	6591.4	81.2
0°-90°	8114.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8114.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3159	3159	3159	3159	3159	
5°	3147	3126	3124	3145	3130	298
15°	2957	2962	2954	2972	2955	832
25°	2655	2667	2706	2744	2715	1223
35°	2283	2294	2358	2384	2368	1422
45°	1834	1843	1921	1945	1940	1414
55°	1371	1402	1453	1473	1461	1231
65°	917	938	969	966	950	907
75°	458	461	477	444	416	485
85°	81	79	78	62	57	106
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P485153
CATALOG NUMBER: ORLG-12-4-INS-A125-LD4-2STD-35-120-EDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*3159.0*	3159.0	3159.0	3159.0	3159.0
2.5°	*3174.5*	*3159.0*	*3138.3*	*3155.5*	*3152.1*
5°	*3146.9*	3126.2	3124.5	3145.2	3129.6
7.5°	*3112.4*	3108.9	3088.2	3110.6	3102.0
10°	*3067.5*	3064.0	3057.1	3072.6	3060.6
12.5°	*3013.9*	3010.5	3013.9	3022.6	3013.9
15°	*2956.9*	2962.1	2953.5	2972.5	2955.2
17.5°	*2880.9*	2886.1	2903.4	2910.3	2908.6
20°	*2818.7*	2822.2	2842.9	2870.6	2841.2
22.5°	*2737.6*	2746.2	2756.6	2806.7	2799.7
25°	*2654.7*	2666.8	2706.5	2744.5	2715.1
27.5°	*2568.3*	2580.4	2628.8	2656.4	2652.9
30°	*2475.0*	2487.1	2547.6	2585.6	2568.3
32.5°	*2378.3*	2399.0	2464.7	2497.5	2464.7
35°	*2283.3*	2293.7	2357.6	2383.5	2368.0
37.5°	*2157.2*	2197.0	2260.9	2278.1	2250.5
40°	*2062.2*	2064.0	2155.5	2155.5	2153.8
42.5°	*1939.6*	1967.3	2027.7	2060.5	2043.2
45°	*1834.3*	1842.9	1920.6	1944.8	1939.6
47.5°	*1718.5*	1753.1	1810.1	1837.7	1823.9
50°	*1604.5*	1628.7	1687.4	1723.7	1709.9
52.5°	*1499.2*	1518.2	1578.6	1599.4	1585.5
55°	*1371.4*	1402.5	1452.6	1473.3	1461.2
57.5°	*1260.8*	1283.3	1345.5	1352.4	1345.5
60°	*1145.1*	1171.0	1221.1	1226.3	1212.5
62.5°	*1034.6*	1051.8	1096.8	1098.5	1082.9
65°	*917.1*	937.9	968.9	965.5	949.9
67.5°	*801.4*	815.2	844.6	832.5	815.2
70°	*684.0*	696.1	720.2	703.0	687.4
72.5°	*570.0*	578.6	599.3	573.4	554.4
75°	*457.7*	461.2	476.7	443.9	416.2
77.5°	*347.2*	350.6	359.3	326.4	295.3
80°	*247.0*	247.0	250.4	215.9	195.2
82.5°	*155.4*	155.4	153.7	127.8	115.7
85°	*81.2*	79.4	77.7	62.2	57.0
87.5°	*29.4*	29.4	24.2	22.5	24.2
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)